

## Amendments to the Claims

### We Claim:

1. (Amended) A medical screw and driver system, comprising:
  - (A) an elongated screw having external threads and an internal bore extending through ~~said screw~~ at least a portion of the length of said screw, said screw being at least partially formed from a bioabsorbable material;
  - (B) an elongated driver having a non-circular cross-sectional shape approximating the cross-sectional shape of said bore, said driver being insertable into said bore and being matingly received therein to transfer rotational motion of said driver to said screw, said bore exhibiting a ~~closely mating~~ shrink-fit relative to said driver such that the cross-sectional shape of said bore is closely mated to the cross-sectional shape of said driver and said driver is removable may be withdrawn from said bore without altering said cross-sectional shape of said bore.
2. (Amended) The system of Claim 1, wherein said driver and said bore have a mating taper, each of said driver and said bore exhibiting a diminishing cross-sectional area in the direction of insertion of said driver into said bore.
3. (Original) The system of Claim 1, wherein said bioabsorbable material shrinks upon heating.
4. (Original) The system of Claim 3, wherein said shrinkage is due to crystallization of said bioabsorbable material.
5. (Original) The system of Claim 3, wherein said shrinkage is due to stress relaxation of said bioabsorbable material.
6. (Original) The system of Claim 3, wherein said bioabsorbable material is selected from the group consisting of aliphatic polyesters, polyorthoesters, polyanhydrides, polycarbonates, polyurethanes, polyamides, and polyalkylene oxides.

7. (Original) The system of Claim 6, wherein said screw has an additive to the composition thereof selected from the group consisting of bioabsorbable glass, bioabsorbable ceramic, biocompatible glass and biocompatible ceramic.

8. (Original) The system of Claim 1, where said screw is composed of an 15/85 (vol/vol) blend of TCP/PLA.

9. (Original) The system of Claim 1, wherein said screw is an orthopedic screw.

10. (Amended) A method for increasing driver-to-screw contact in a medical screw and driver system having an elongated screw formed at least partially from a bioabsorbable material and having external threads and an internal bore with a non-circular cross-sectional shape extending through ~~the screw~~ at least a portion of the length of the said screw and an elongated driver having a non-circular cross-sectional shape approximating the cross-sectional shape of the said bore, ~~the~~ said driver being insertable into the said bore and being matingly received therein to transfer rotational motion of said driver to ~~the~~ said screw, said method comprising the steps of:

(A) inserting the said driver into the said bore of the said screw;

(B) heating the said screw

(C) allowing the said screw to cool, said steps (B) and (C) ~~ef heating and cooling~~ inducing said screw to shrink whereby said bore exhibits a ~~closely mating~~ shrink-fit relative to said driver such that the cross-sectional shape of said bore is closely mated to the cross-sectional shape of said driver; and such that said driver is removable from said bore.

(D) withdrawing said driver from said bore without altering said cross-sectional shape of said bore.

11. (Original) The method of Claim 10, wherein said screw is heated in said step (B) to a temperature at least equal to the glass transition temperature of said screw.

12. (Amended) The method of Claim 10, further including comprising the step (B2) of maintaining the said screw at an elevated temperature after said step (B) of heating and prior to said step (C) of allowing the screw to cool.

13. (Amended) The method of Claim 12, wherein the said driver is heated simultaneously with the said screw during said step (B) of heating.

14. (Amended) The method of Claim 12, wherein said steps of (B) heating, (B2) maintaining and (C) allowing the screw to cool result in the relaxation of the internal stress of the said screw.

15. (Amended) The method of Claim 12, wherein said steps of (B) heating, (B2) maintaining and (C) allowing the screw to cool, result in a partial crystallization of the said screw.

16. (Amended) The method of Claim 12, wherein the said screw is composed of 15/85 (vol/vol) blend of TCP/PLA.

17. (Amended) The method of Claim 16 wherein said step (B) of heating includes the step of raising the temperature of the said screw from room temperature to an said elevated temperature, said elevated temperature being of

about 70°C and said step (B2) includes the step of holding the said elevated temperature of the said screw at about 70°C for about 4 hours.

18. (Amended) The method of Claim 16 wherein said step (B) of heating includes raising the temperature of the said screw from room temperature to a said elevated temperature, said elevated temperature being of

about 70°C and said step (B2) of maintaining includes holding the said elevated temperature of the said screw at about 70°C for about 4 hours, and further comprising the steps (B3) of heating the screw to a temperature of 100°C and (B4) maintaining the 100°C temperature for 8 hours before said step (C) of allowing the screw to cool.

19. (Amended) The method of Claim 11, wherein the said screw is heated in during said step (B) to a temperature of about 5°C to 15°C above the glass transition temperature of said screw.

20. (Amended) The method of Claim 10, further comprising the step (D) of ~~withdrawing the screw from the driver and~~ step (E) of replacing the said screw on the said driver in the same relative orientation that the said screw and said driver were in when said step (B) of heating was conducted.